



## INTER-DEPARTMENTAL ROUTING SLIP

Date **11/01/2017**

Department **Department of Defense**  
To **Governor David Y. Ige**  
From **Major General Arthur J. Logan**

Hard Copy Doc.  
& Signature  
Required ☒ Yes  
☐ No

Return To **Carolyn Taketa, Department of Defense**  
E-mail **[REDACTED]**  
E-mail **[REDACTED]**  
E-mail **[REDACTED]**

Enclosures

- 1) Letter to Mr. Michael E. Dame, dated Nov. 1, 2017 to be sign by Gov. David Y. Ige
- 2) Hawaii SLIGP 2 - Project Narrative
- 3) Hawaii SLIGP 2 - Budget Narrative

Comments

In accordance with the State and Local Implementation Grant Program Guidance (SLIGP) a Single Point of Contact appointment is required to be included with the grant application packet. The SLIGP is a two-year planning grant for public safety communications implementation FirstNet and AT&T for the State of Hawaii. The planning activities are identified in the attached narrative.

To submit documents electronically, e-mail: [transmit.docs@hawaii.gov](mailto:transmit.docs@hawaii.gov)



## State and Local Implementation Grant Program 2.0 Application Narrative

### **A. Introduction**

The Middle-Class Tax Relief and Job Creation Act of 2012 (the “Act”) created the First Responder Network Authority (FirstNet) as an independent authority within NTIA to provide emergency responders with a nationwide public safety broadband network (NPSBN). The Act also authorized NTIA to establish the State and Local Implementation Grant Program (SLIGP), to assist State, regional, tribal, and local jurisdictions with identifying, planning, and implementing the most efficient and effective means to use and integrate the infrastructure, equipment, and other architecture associated with the NPSBN to satisfy the wireless broadband and data services needs of their jurisdictions.

On September 27, 2017, NTIA issued a Notice of Funding Opportunity for the State and Local Implementation Grant Program 2.0 to assist state, local and tribal governments with planning activities for the NPSBN (SLIGP 2.0 NOFO). Section 6 of the SLIGP 2.0 NOFO specifies that SLIGP 2.0 will have different allowable activities and costs based on the State’s opt-in or opt-out status.

On August 15, 2017, the honorable David Y. Ige, Governor of the State of Hawaii, notified FirstNet that Hawaii had decided to participate in the deployment of the NPSBN as proposed in the FirstNet State Plan. As a result of Governor Ige’s decision, Hawaii is considered to be an “Opt-In” State for the purposes of SLIGP 2.0.

### **B. Proposed Activities, Objectives and Outcomes**

Each of the following proposed activities will support FirstNet’s NPSBN as it relates Hawaii’s needs.

- NG9-1-1 and the NPSBN when coordinated with each other, can greatly improve public safety communications by providing seamless exchange of rich data between the public, 911 and first responders.
- Developing strategies to expand broadband service for both first responder and citizens in rural areas is a central goal of the NPSBN.
- Regulations which would provide for better access to the wireless data networks when responding to incidents in building and other densely constructed areas help to leverage the value and capabilities of the NPSBN.
- The development of wireless mobile data applications for use by public safety is a prime reason for adoption and use of the NPSBN by first responders.
- Priority and preemption, including the uplift of extended primary users is a critical feature of the NPSBN. An examination of these and other issues related to the use of the NPSBN by First Responders ensures that such use will be efficient and helps to avoid potential conflicts.
- Education and exposure of extended public safety stakeholders about the NPSBN provides for potential integration of data communications between them and first responders using shared applications and other features of the NPSBN.

#### **1. NG9-1-1 and FirstNet Integration Planning**

NG9-1-1 is a nationwide, standards-based, all-IP emergency communications infrastructure enabling voice and multimedia communications between a 9-1-1 caller and a 9-1-1 center. NG9-1-1 is designed as a managed system to provide access to emergency services from all connected communication sources. While NG9-1-1 and the NPSBN are two separate systems, both share critical information to first responders.

The objective of this activity would be to determine what is required to integrate an NG9-1-1 system in with the NPSBN. Specific activities include joint research and planning projects with the state's E9-1-1 Board which is responsible for providing technical advisory support and funding for Public Safety Answering Points (PSAPs) to deploy and sustain enhanced NG9-1-1 service and outreach and coordination with the PSAPs located in each of state's counties. Outcomes from this activity will include a preliminary integration strategy and proposal for funding and implementing the integration. To accomplish this outcome this will require a series of meetings with Hawaii's Enhanced 9-1-1 Board. The Board's Executive Director is very concerned that there has not been more discussion and inter relationships to build this integration. Therefore, as the state moves forward with FirstNet and AT&T we need to build upon each program to ensure that our responders and the supporting activities have the policies and procedures in place for now and those required for the future.

Criteria for qualification as an allowable activity under SLIGP2: Development of policies and agreements to increase sharing of data between existing public safety systems across various agencies within the State or territory using the NPSBN.

## **2. Assessing broadband infrastructure and service in rural and isolated areas**

The state of Hawaii consists of eight main islands separated by vast stretches of the Pacific Ocean. Each island contains multiple volcanic peaks, deep valleys and other geologic features which creates areas that are extremely isolated and difficult to access. Some of these areas have little, if any, utility services (power, telephone, water and sewer) and first responder communications in these areas may also be limited or nonexistent. Nevertheless, residents who prefer a more bucolic lifestyle and tourists seeking a "wilderness" experience are often drawn to these areas.

The objective of this activity would be to identify and inventory utility and telecommunications assets in rural and isolated areas of the state and come up with strategies to facilitate deployment of the NPSBN in these areas to ensure adequate public safety and first responder coverage in these areas. Specific activities would include working with current public utility entities to assess existing and future utility installations and whether these could be coordinated with FirstNet's NPSBN network build out. Outcomes from this activity include an inventory of assets to be shared with local government agencies, a strategy to provide better first responder coverage in these areas and a timetable and budget for infrastructure and equipment to implement the strategy.

Systems are in place for this activity. Both the State's office of Enterprise Technology Services and Department of Commerce and Consumer Affairs have examined rural broadband deployment in Hawaii and their efforts will be incorporated in developing this strategy for future use. This will be necessary for future funding initiatives as the grant programs diminish.

Criteria for qualification as an allowable activity under SLIGP2: Identifying and documenting on-going coverage needs/gaps within the State.

### **3. Evaluating current regulations pertaining to in-building first responder communications**

Current regulations in Hawaii require buildings with multiple units and floors to have certain communications equipment installed on each floor to support first responder in-building communications. However, these regulations may be outdated and require equipment which is obsolete or incompatible with the planned capabilities of the NPSBN.

The objective of this activity would be to review the current regulations to determine the requirements, if any, for in-building communications equipment and propose revisions which may be more consistent with the planned capabilities of the NPSBN. Specific activities would include review of the building and fire codes adopted by each County and discussing how the fire agencies in each county interpret these provisions; obtaining input from the fire agencies of what their needs are with respect to in-building communications equipment and coordinating with FirstNet on whether NPSBN equipment and services would address these needs. Outcomes from this activity will include proposed amendments of current codes or new provisions to address changes and advances in the communications network and equipment.

Criteria for qualification as an allowable activity under SLIGP2: Planning activities to prepare for emergency communications technology transitions.

### **4. Review of existing public safety applications**

Most, if not all, of the first responder agencies in Hawaii are using or planning to use various applications as part of their operations. This includes computer dispatch systems by the County PSAPs along with individual applications, both desktop and mobile, by individual first responder agencies.

The objective of this activity would be to identify what applications public safety agencies are using or planning to use and assess whether these could be utilized with the NPSBN. Specific activities include meetings with the local PSAPs and first responder agencies to review the applications currently being used, what upgrades or transitions, if any, are being planned and evaluating how these may be utilized with the NPSBN. Outcomes from this activity could include an assessment of applications being used and planned for, including user reviews on the pros and cons of current applications and "lessons learned" that could be applied to the transition of existing and planned applications to the NPSBN.

This activity will involve a working group of individuals across the state to assist in developing the applications required for responders. This becomes a transferrable topic of discussion and implementation at the SCIP meetings to ensure that products designed can be implemented across the jurisdiction rather than being limited to individual counties. Sharable resources and technology is important to maximize time, effort and funding. This also will be an activity other department within the state can also share in the development and use of applications.

Criteria for qualification as an allowable activity under SLIGP2: Activities to identify and plan for the transition of public safety applications, software, and databases.

### **5. Examination of Potential NPSBN Operational & Governance Issues**

AT&T's proposed implementation of the NPSBN provides for priority of first responder traffic and preemption of commercial traffic during times when the network becomes congested. Another feature is the ability to uplift extended primary user (i.e. government transportation, sanitation, construction personnel) to also have priority and preemption for limited periods. However, both AT&T and FirstNet have indicated that it will be up to the local government agencies to create and implement policies to implement the "uplift" of extended primary users and how, if at all, priority and preemption would be coordinated amongst first responder agencies.

The objective of this activity would be review this issue with the various local first responder communications network personnel and obtain input which could then be further review by appropriate state and county executive leaders for possible adoption as either a county or state-wide policy. Specific activities include meetings and consultations between the Statewide Interoperability Coordinator (SWIC) and the State Communications Interoperability Plan Committee (SCIP), which consists of first responder communications personnel at all levels of government. The SWIC reports to the FirstNet State Point of Contact (SPOC) who could then work with the SWIC and SCIP to recommend and implement the appropriate plan and/or policies to address these situations. Outcomes from this activity will include a standard policy for each first responder jurisdiction and between jurisdictions to address "uplift", priority and preemption.

Existing governance models may need to be revised with the development and implementation of the NPSBN in Hawaii. Draft legislation was submitted in 2017 to accomplish this but was not passed. Another attempt will be made in 2018.

Criteria for qualification as an allowable activity under SLIGP2: Existing governance body to provide input to the single officer and to contribute towards planning activities to further identify potential public safety users of the NPSBN and prepare for data sharing.

#### **6. Identification and Planning for Additional NPSBN Users**

Hawaii's major incidents include hurricanes, earthquakes, tsunamis, and potentially, nuclear attack. In such cases, the response necessary to address public casualties, property damage and social order would need to include coordination by government agencies with health care facilities, utilities, public and private transportation carriers and facilities, public and private education systems and others.

The objective of this activity would be to inform and educate other entities and agencies who may not be first responders but would have a significant role in any disaster response and recovery. Specific activities include meetings and consultations between these entities and FirstNet which would be coordinated by the SWIC. Outcomes from this activity will have better integration or interoperability between first responder and others using shared applications on the NPSBN and enhanced communications coordination.

The activity will be a composite of all the activities above and will bring the program and projects together. Several key areas were identified in the FirstNet State Plan that requires discussion and integration into our program; NG 9-11 is certainly important but also the relationship with our federal partners.

Criteria for qualification as an allowable activity under SLIGP2: Individuals, such as the single officer and governing body members, to perform planning activities to help FirstNet and its partner further identify potential public safety users of the NPSBN.

### **C. Grants Management and Resource Implementation**

Continuing with the Governor's decision to opt-in to FirstNet, the State of Hawai'i is engaged in a statewide implementing broadband technology throughout the state. Of importance in this effort is the State's implementation of the Nationwide Public Safety Broadband Network (NPSBN).

The Statewide Interoperable Coordinator (SWIC) will continue to coordinate with the activities identified herein as well as the execution of the State and Local Implementation Grant Program 2.

The SWIC is a staff member under the State Department of Defense Office of Homeland Security. The SWIC is a fully time employee of DOD; fifty percent (50%) of the SWIC time and salary will be attributed to the SLIGP2. The SWICs salary will be contributed to the match for the grant program.

The SWIC will be responsible for the execution, implementation and day-to-day oversight of the grant activities and reporting. The Office of Homeland Security Grants Management Section will support the SWIC and the coordination of public safety in the State. The Grants Management provides subject matter expertise in grants management that will, with the collaboration of the SWIC, facilitate timely reports and other NTIA requirements.

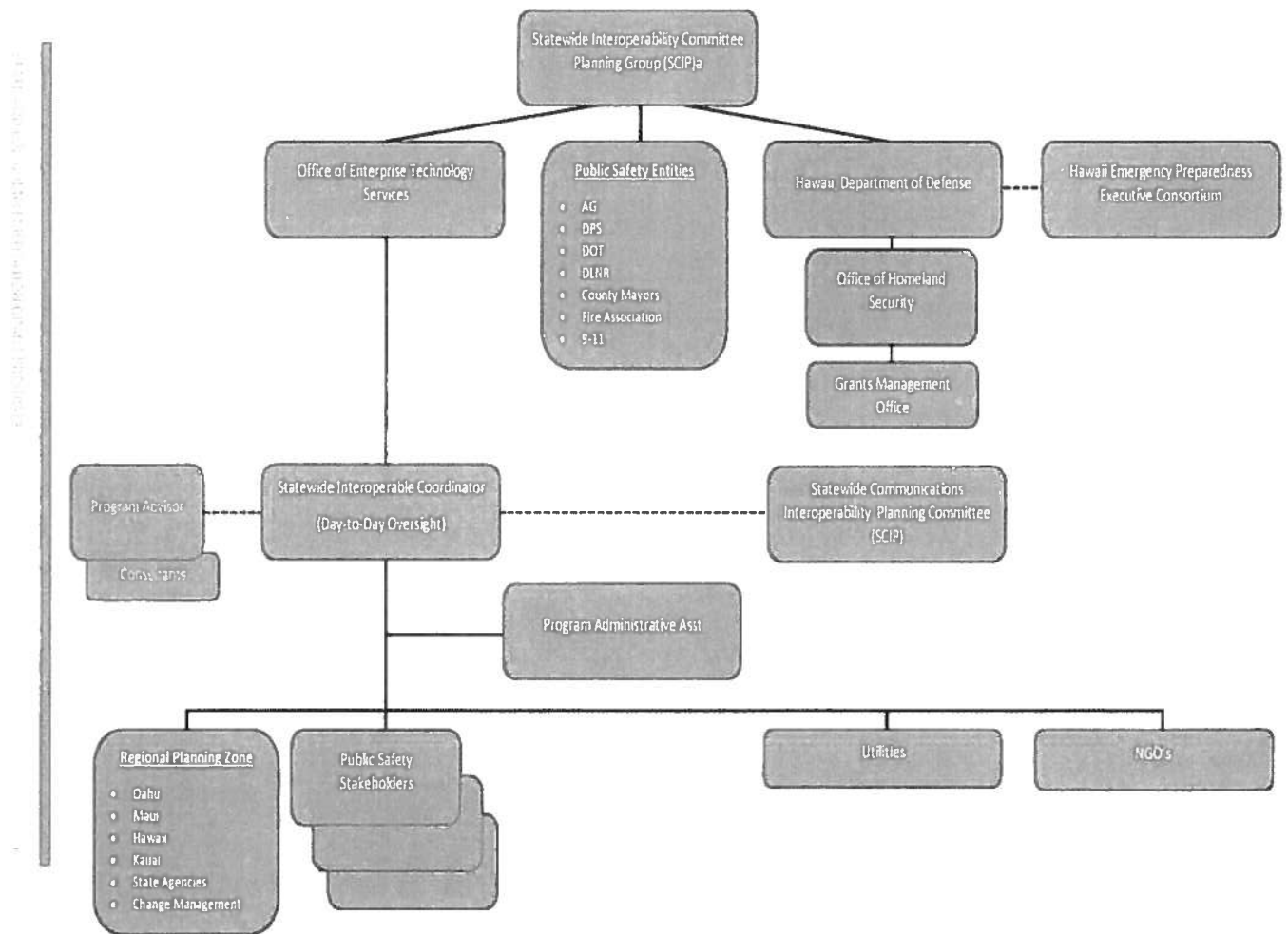
Within the Department of Defense, the DOD Budget and Fiscal Office will maintain the official financial data related to the program. All reimbursements will be made from the DOD Fiscal Office. Contracting services are available through the department which will include our request for contracting/consultant services. For Legal representation, the SWIC will coordinate with the Department of Attorney General for legal consulting services.

The governance and the ability to execute the program resides the Department of Defense and coordinated with the Public Safety entities under the Governor – Departments of Public Safety, Transportation, Land and Natural Resources, Attorney General, and Defense. On the county side, the applicable governance entities are the four county Mayors and the law enforcement, fire, EMS, and emergency management agencies in each County.

The SWIC will also coordinate with the Statewide Interoperability Communication Planning Group (SCIP) which also includes representatives from each of the RPZs and other key stakeholders.

As planning moves forward, the State of Hawai'i anticipates issuing competitive procurements to secure services of identified Subject Matter Experts (SME) as identified in the planning process. Such expertise may include, but not be limited to technical, legal, and financial experts who add value to the overall planning process.

The state planning will include current planning and governance as depicted below.





## State and Local Implementation Grant Program 2

The Hawaii Department of Defense, recipient of the SLIGP grant, is the designee to advance Emergency Management throughout the State. It's Director, the State of Hawaii Adjutant General (TAG), is a member of the Governor's Cabinet. He works collaboratively with the State Chief Information Officer (CIO) who is also the director of the Enterprise Technology Services (ETS), which has responsibility to advance the State's public safety communications efforts as well as the overall Hawaii Broadband Initiative. There exists a dedicated Statewide Interoperability Coordinator (SWIC) who works with both State entities and the counties to promote interoperable public safety communications and coordinates with the FirstNet State Point of Contact (SPOC), who is the TAG. In that role, the SWIC coordinates efforts related to the Nationwide Public Safety Broadband (NPSBN) initiative which is the basis of the SLIGP2 grant program.

The State saw the FirstNet strategy as related to the deployment of the NPSBN in Hawaii evolve through planning under the initial State and Local Implementation Grant Program. Careful and strategic planning involved the participation of Hawaii public safety partners with the vision that FirstNet will enable the State of Hawaii to become a leader in the non-contiguous states and territories in the deployment of the NPSBN.

Using SLIGP 2 will broaden the planning for the implementation of FirstNet with their contractor, AT&T. To date, we feel we have a good relationship with both entities to move forward with the buildout of FirstNet for the community.

Six major activities are identified as important to work toward preparing the state with the implementation of FirstNet and to prepare the state for the future development the communication into technological future. Some are moving forward from the initial plan and now with the contractor identifying the next steps and forward movement.

Activity 1: **NG9-1-1 and FirstNet Integration Planning**

Activity 2: **Assessing broadband infrastructure and service in rural and isolated areas**

Activity 3: **Evaluating current regulations pertaining to in-building first responder communications**

Activity 4: **Review of existing public safety applications**

Activity 5: **Examination of Potential NPSBN Operational and Governance Issues**

Activity 6: **Identification and Planning for Additional NPSBN Users**

The SWIC position remains under the State Department of Defense, state funded. For SLIGP 50 percent of the SWICs time and effort will be associated with achieving the above six initiatives. The SWIC is the primary POC for day-to-day activities related to NPSBN and FirstNet activities. The SWIC's priority is to establish a governance structure that will engage key stakeholders leading to a viable public safety broadband strategic plan for the state of Hawaii. The budgeted cost for this position is only for the duties associated with public safety broadband communications and the SLIGP2; duties and responsibilities associated with the Statewide Communications Implementation Plan (SCIP) Programs,

land mobile radio and general interoperable communications duties, except as expressly permitted by NTIA are addressed under the State Homeland Security Grant Program.

#### **PERSONNEL**

Years 1 and 2: The SWIC will contribute 50 percent of time to SLIGP for both years. The payroll for the SWIC will be used to support the match of \$125,000 for the two-year period. The total payroll for the SWIC during the two-year performance period will \$190,000 with half being associated with the match requirement. The salary is an allowable match for the SLIGP2. The timesheets are completed monthly and maintained in the grant files.

The SWIC works under the Office of Homeland Security at the state Department of Defense (DoD). DoD provides the historical background, grant reporting, and day-to-day grant activities as related to the financial support required for the grant management.

The SLIGP will be managed within the Office of Homeland Security and supported under the Grants Section. All records, reimbursement, reports will be held in the Grant Section and entered in the Grants Management Office Portal.

With the salary and fringe the match of \$125,000.00 will be met; no cost will be associated from the grants office to support the management responsibilities.

See attached Detailed Budget Worksheet for calculations.

*Federal: \$0*

*Non-Federal: \$95,000.00*

*Total: \$95,000.00*

#### **FRINGE**

Fringe benefits for state employees under BTU 13 are computed annually as established by the State Department of Budget and Finance. The SWIC is computed at the contribution of 42% against the time related to the SLIGP2, or 50 percent of the SWICs time. The fringe benefit percentage will be applied for the duration of the performance period at \$39,900.00.

Based on the salary and the match for the two-year period, the we will exceed the required \$125,000 march requirement. While the contribution will be \$39,900.00, we will allocate only that amount required of the fringe to meet the required amount. A residual match of \$9,900.00 will be available if required.

*Federal: \$0*

*Non-Federal: \$30,000.00*

*Total: \$30,000.00*

#### **TRAVEL**

Travel for the State of Hawaii becomes very expensive. In the SLIGP 2 we do not see much need for out-of-state travel. Most of the travel will be associated with the six activities above for neighbor island travel. While the travel is primarily for travel from Kauai, Hawaii, or Maui to Honolulu, there will be

opportunity for the SWIC to travel to each of the counties. This will be especially true for Activities 1 and 2.

**Mainland travel:** Primarily for the State Point of Contact and the Statewide Interoperable Communications Coordinator to stay abreast of Commerce, FirstNet, and communications. We are only identifying 4 mainland trips during the performance period for approximately \$9,500.00.

Airfare is averaged at \$800.00; average trip is five (5) days with accommodations/lodging averaging \$150.00 per day is \$750.00; per diem at \$145.00 for the five (5) days is \$725.00; incidentals are capped at \$100.00 per person per trip. Unit cost \$2,375.00 per trip; total: \$9,500.00

**In-State travel:**

The in-state travel is associated with the activities identified on page 1.

In state travel sponsored for Neighbor Islands stakeholders (12 total per meeting) to attend FirstNet planning meetings; State will host six meetings (6) annually or 12 meetings for the 24-month performance period. Computation: 12 persons (4 persons per neighbor island); 12 meetings; \$300 RT; 1 day; 3 rental cars per meeting at \$75 per day (18 rental over 24 months). Total: \$44,550.00

9-11 and FirstNet Integration Planning Meetings for the SWIC to visit with each county regarding the 9-11 and PSAP. Computation: 1-day meeting for 2 people; 4 meetings; 3 islands; 24 trips at \$300 RT; 1 car per island (12 rentals at \$75.00 daily). Total: \$8,100.00

Working group/planning development to evaluate public safety application meetings on Oahu. Computation: 1-day; 6 persons for 4 meetings; \$300 RT; ground transportation (\$25 each). Total: \$7,800.00

SWIC Coordination meetings with constituents and governance. 1-day; 6 representatives; 8 meetings; \$300 RT; ground transportation (\$25 each). Total: \$15,600.00

*Federal: \$85,550.00*

*Non-Federal: \$0.00*

*Total: \$85,550.00*

**Equipment**

No equipment will be purchased using grant funds. See attached Detailed Budget Worksheet.

*Federal: \$0.00*

*Non-Federal: \$0.00*

*Total: \$0.00*

### ***Supplies***

No supplies will be purchased using grant funds. See attached Detailed Budget Worksheet.

*Federal: \$0.00*

*Non-Federal: \$0.00*

*Total: \$0.00*

### ***Contracts***

The planning occurring under SLIGP2 ties specifically to Hawaii's strategy for proposed deployment of the NPSBN. The strategic plan related to the NPSBN will leverage any existing documents developed by the State as well as identify gaps of information deemed critical for the implementation AT&T proposed deployment strategy for Hawaii.

As the implementation of FirstNet /AT&T proposals moves forward, we will continue to review, update and identify gaps in coverage, deployables, and other communication equipment. We will establish a project management program to assist with meeting the six activities above and the continued relations with FirstNet and AT&T. It is very important to maintain visibility of the proposed solution for Hawaii with our stakeholders especially during the early stages of the planning initiatives. As the FirstNet/AT&T solution is developed, there remains a need to consider the state's existing infrastructure, leverage current mapping, and assessment of current public safety capacity building through a strong gap analysis of the current and future communications infrastructure and programs. Meetings with our stakeholders, understanding their needs and future investments will be critical to the long-term relationship with FirstNet and AT&T. Under SLIGP2, an understanding how the NPSBN will be deployed will include evaluation of issues raised by public safety stakeholders including, but not limited to, any day-to-day concerns, legal issues, procurement considerations, coverage requirements, survivability, and backhaul. Planning includes a holistic perspective for the unique aspects of the State. Such perspective will include, among other things which may not be readily apparent, identification of land sites, risks, vulnerabilities, lease negotiations, cultural and environmental preservation challenges, and any opportunity to leverage existing infrastructure, if possible. Consultation for specific needs of the project will be determined more clearly as the State's goals related to the deployment of the NPSBN are clarified in the development of its State Plan.

Within the allocation for the consultation for outreach for a meeting with all state constituents. This meeting will be requested to FirstNet for the State of Hawaii. This outreach may expand to the Pacific and the Region as planning commences.

Project Management and Program Support for SLIGP2 - \$464,450.00

Legal Consultant - \$150,000.00

*Federal: \$614,550.00*

*Non-Federal: \$0.00*

*Total: \$614,550.00*

**Other**

No other activities will be purchased using grant funds. Refer to the Detailed Budget Worksheet.

**Federal: \$0.00**

**Non-Federal: \$0.00**

**Total: \$0.00**

**Indirect Costs**

There will no indirect costs attributed to the grant program. See attached Detailed Budget Worksheet.

**State and Local Implementation Grant 2**

**Federal: \$700,000.00**

**Non-Federal: \$125,000.00**

**Total: \$825,000.00**

Category	Detailed Description of Budget (for full grant period)	Increment 1 9 months		Increment 2 15 months		Total Breakdown of Cost		Total Project Costs
		Federal	Non Federal	Federal	Non Federal	Federal	Non Federal	
Total Personnel Costs			\$35,625.00		\$59,375.00		\$95,000.00	\$95,000.00
Total Fringe Benefits			\$14,963.00		\$15,037.00		\$30,000.00	30,000.00
Total Travel	\$85,550.00	\$33,268.00		\$52,282.00		\$85,550.00		\$85,500.00
Total Contractual	\$614,450.00	\$215,625.00		\$398,825.00		\$614,450.00		\$614,450.00
<b>TOTAL SLIGP 2 CHARGES</b>	<b>\$700,000.00</b>	<b>\$248,893.00</b>	<b>\$49,588.00</b>	<b>\$451,107.00</b>	<b>\$74,412.00</b>	<b>\$700,000.00</b>	<b>\$125,000.00</b>	<b>\$700,000.00</b>

Match will be over \$9,900 adjusted with the fringe. At this time, capped the fringe contribution at \$30,000.00

